

175 Watt MONO-CRYSTALLINE SOLAR PANEL

Suntech Black Label™ modules are exclusively designed and engineered for homeowners who seek a rooftop solar solution that combines visual aesthetics with excellent efficiency.

Features

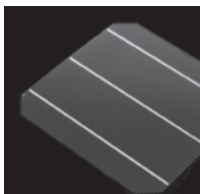
- High conversion efficiency based on innovative photovoltaic technologies
- High reliability with guaranteed +/-3% power output tolerance
- Withstands high wind-pressure and snow load, and extreme temperature variations

Quality and Safety

- 25-year power output transferable warranty
- Rigorous quality control meeting the highest international standards
- ISO 9001:2000 (Quality Management System) and ISO 14001:2004 (Environmental Management System) certified factories manufacturing world class products
- UL listings: UL1703, cULus, Class C fire rating, conformity to CE

Recommended Applications

- Residential roof top systems
- On-grid utility systems
- On-grid commercial systems



Suntech's technology yields improvements to BSF structure and anti-reflective coating to increase conversion efficiency

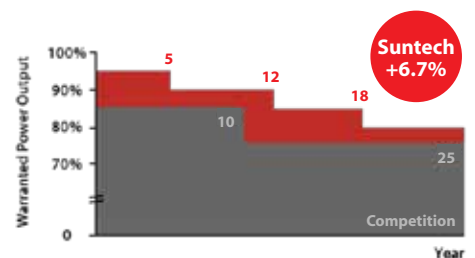


Unique design on drainage holes and rigid construction prevents frame from deforming or breaking due to freezing weather and other forces



The panel provides more field power output through an advanced cell texturing and isolation process, which improves low irradiance performance

Industry-Leading Warranty



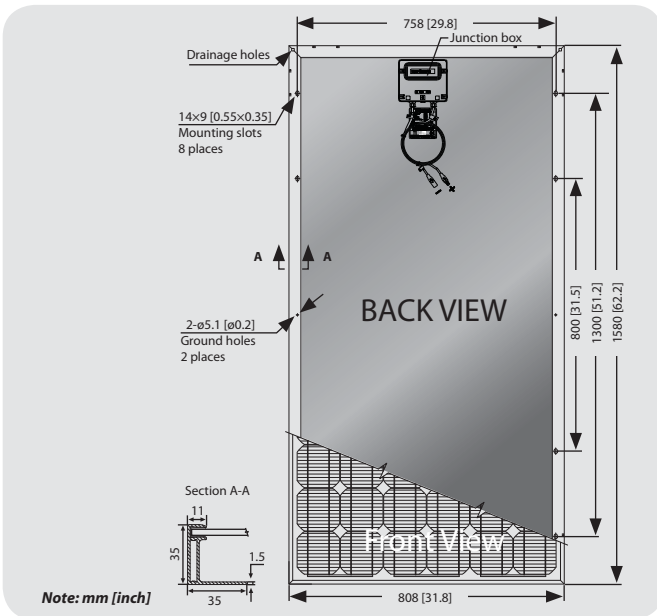
- 25-year, transferable power output warranty: 5 year/95%, 12 year/90%, 18 year/85%, 25 year/80%
- Warrants 6.7% more power than industry standard
- 5 year material and workmanship warranty

Please refer to Suntech Product Warranty for details.

Solar powering a green future™

Electrical Characteristics

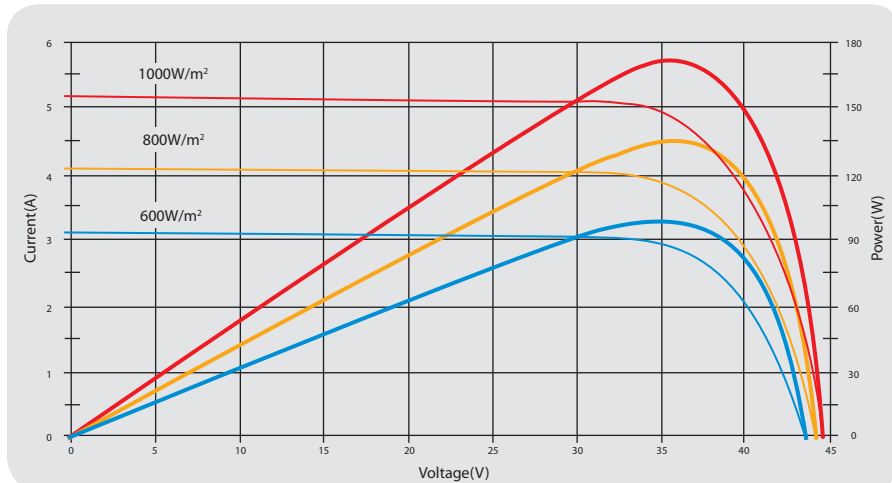
| Characteristics | STP180S-24/Ab-1 | STP175S-24/Ab-1 |
|---------------------------------|-----------------|-----------------|
| Open - Circuit Voltage (Voc) | 44.4V | 44.2V |
| Optimum Operating Voltage (Vmp) | 35.6V | 35.2V |
| Short - Circuit Current (Isc) | 5.4A | 5.2A |
| Optimum Operating Current (Imp) | 5.05A | 4.95A |
| Maximum Power at STC (Pmax) | 180Wp | 175Wp |
| Operating Temperature | -40°C to +85°C | -40°C to +85°C |
| Maximum System Voltage | 600V DC | 600V DC |
| Maximum Series Fuse Rating | 15 AMPS | 15 AMPS |
| Power Tolerance | ±3 % | ±3 % |

 STC: Irradiance 1000W/m², Module temperature 25°C, AM=1.5

Mechanical Characteristics

| | |
|---------------|---|
| Solar Cell | Mono-crystalline 125×125mm (5inch) |
| No. of Cells | 72 (6×12) |
| Dimensions | 1580×808×35mm (62.2×31.8×1.4inch) |
| Weight | 15.5kg (34.1lbs.) |
| Front Glass | 3.2 mm (0.13inch) tempered glass |
| Frame | Anodized aluminium alloy |
| Junction Box | IP65 rated |
| Output Cables | Asymmetrical lengths (-) 1200mm (47.2inch) and (+) 800mm (31.5inch), MC Plug Type IV connectors |

Temperature Coefficients

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |
| Temperature Coefficient of Pmax | -0.48 %/°C |
| Temperature Coefficient of Voc | -0.34 %/°C |
| Temperature Coefficient of Isc | 0.017 %/°C |

Current-Voltage & Power-Voltage Curve (170W)

Temperature Dependence of Isc, Voc, Pmax
